

THE PROFESSIONAL RIGGER

Volume 24 Number 2

May 2009

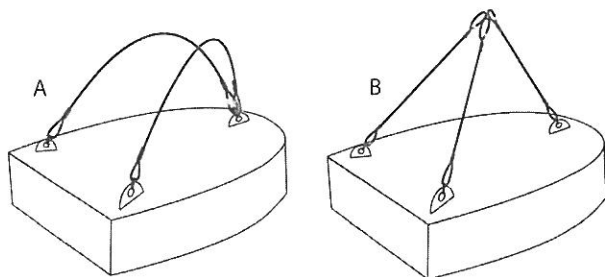
TECHNICAL WORKSHOP

Load Control

Identify the rigging method below which provides the best load control of the two hitch systems illustrated.

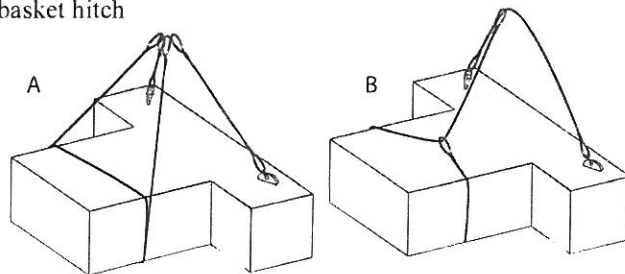
Problem 1:

- (a) Method A: two, inverted basket hitches
- (b) Method B: three, single (vertical) leg slings



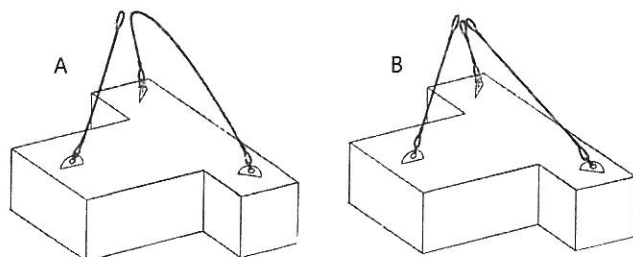
Problem 4:

- (a) Method A: one, double wrap basket hitch and two, single (vertical) leg slings
- (b) Method B: one, single wrap choker hitch and one, inverted basket hitch



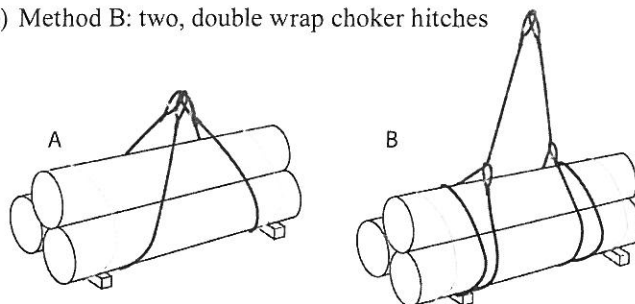
Problem 2:

- (a) Method A: one, single (vertical) leg sling and one, inverted basket hitch
- (b) Method B: three, single (vertical) leg slings



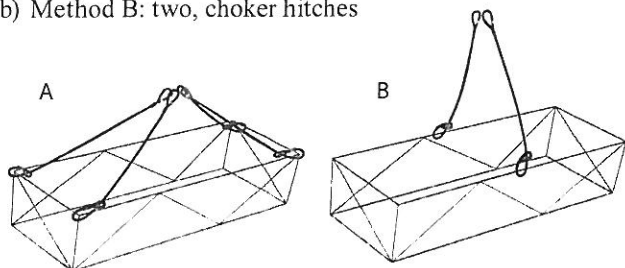
Problem 5:

- (a) Method A: two, single wrap basket hitches
- (b) Method B: two, double wrap choker hitches



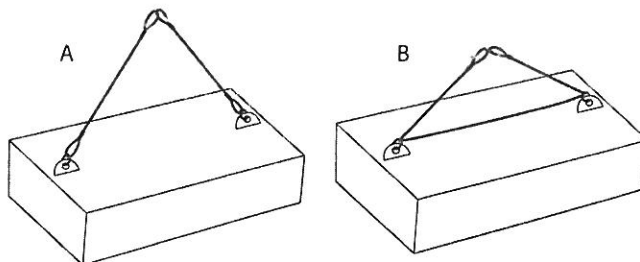
Problem 3:

- (a) Method A: four, choker hitches
- (b) Method B: two, choker hitches



Problem 6:

- (a) Method A: two, single (vertical) leg slings
- (b) Method B: one running basket hitch



Answers on Page 3

ASME Main Committee Appointment

The American Society of Mechanical Engineers has announced the appointment of Mike Parnell, President of Industrial Training International, Inc. as the ASME B30 Standards Committee Vice Chairman. In addition to his duties as Vice Chairman, Mike also acts as a voting member on the following ASME committees:

- B30.1 Jacks
- B30.7 Base Mounted Drum Hoists
- B30.9 Slings
- B30.19 Cableways
- B30.26 Rigging Hardware



Along with his commitments to the ASME Standards Committee, Mike is also involved with the Association of Crane & Rigging Professionals. His dedication and commitment to safety of employees in the crane and rigging industry are never ending, and his passion to share his experiences and knowledge with students results in programs that are educational, enlightening and exciting!



Once again, Bob Schumacher is on the move. "Where in the World will Bob go next?" As you read in our January 2009 Professional Rigger, Bob was covering the globe and piling up the frequent flyer miles. We asked you to email us your

response as to where you thought he would travel to next, and for those of you that responded with "Dubai", we sent you a three card pack which included our Journeyman Rigger Reference Card, Rigging Gear Inspection Reference Card and our Master Rigger Reference Card. For those that respond to the May Professional Rigger question, we will be giving out a set of *Mike's Safety Tips*, which includes tips for Rigging, Mobile Cranes and Overhead Cranes. So don't delay and enter today by emailing your answer to whereisbob@wrrc.com. Which location will Bob travel to next?



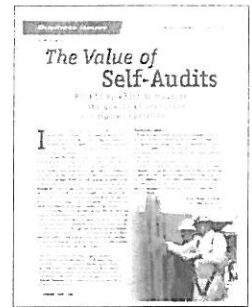
- | | |
|-------------------------------|--------------------|
| • Dubai, United Arab Emirates | • Singapore |
| • Batam, Indonesia | • Veracruz, Mexico |
| • Baku, Azerbaijan | • Doha, Qatar |
| | • Gardone, Italy |

Here is a small hint as to where Bob will go next: In August 1967, this country joined Indonesia, Malaysia, the Philippines and Thailand to form the Association of Southeast Asian Nations.

See us in Crane Hot Line!

The Value of Self-Audits

In the March 2009 issue of Crane Hot Line, ITI's own Mike Parnell recognizes the need to audit crane and rigging activities to determine the overall quality of an operation. Mike offers seven points to measure the quality of your crane and rigging operation by providing a scoring system that helps the employer evaluate the current status of their operation. From the "Condition of the Fleet" to the "Management's Commitment", all seven points provide valuable information with the end result being a risk reduction to the company. "A long reaching goal of an audit is to take care of the people who take care of the company," said Mike. You can read the entire article in the March 2009 issue of Crane Hot Line.



ITI Customer Corner

Bollinger Shipyards, Inc.

Industrial Training International would like to salute Bollinger Shipyards and their continuous efforts in improving their training programs. It started with a crane and rigging audit of seven shipyards in 2004, followed by an improvement planning session with members from all levels of the company, including management, safety and field employees. With the assistance of a grant from Louisiana Technical College, Bollinger Shipyards has finalized an ITI-developed Crane and Rigging Manual and has implemented a series of training workshops for all employees over the past 5 years. Workshops have included training sessions from basic to advanced levels, including critical lift planning and discussions on rigging, overhead crane operation and mobile crane operation. Congratulations to Bollinger Shipyards for their continued efforts that support a safe and efficient working environment.





Lift Director & Site Supervisor

1 Day

This program meets the responsibilities as outlined in ASME B30.5 Mobile Cranes for the Lift Director and the Site Supervisor. The classroom portion of this training covers lift site preparation, traffic control, load chart confirmation, hazard recognition, multiple crane lifts and lifting personnel. It also details the responsibilities of the operator, rigger and signaler.

During the hands-on portion of this program, the student will be involved in mobile crane lift activities by serving in the roles of either the Lift Director, Site Supervisor, Crane Owner, Crane User or the Crane Operator.



Critical Lift Planning

NEW! Now 2 Days!

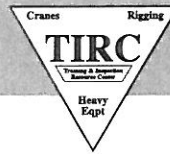
2 Days

The Critical Lift Planning Program allows the participants an opportunity to work in teams that will execute a critical lift plan using mobile crane(s) and designated loads. Each team



will be required to complete the plan and execute it according to the procedures they have outlined. The critiquing of each lift plan will complete the course.

Continuing Education Units are available for both of these programs.



Training & Inspection Resource Center

The Training & Inspection Resource Center is your one-stop shopping source for educational, technical and inspection materials. TIRC offers a wide variety of reference materials for the crane, rigging and heavy equipment industry. For your shopping convenience, our products can be viewed online at www.tirc.net. There you will find over 240 products including reference cards, handbooks, manuals, cd's, videos, inspection forms, lift/load plans, posters, decals, tools and field equipment, ASME standards and much more. You can place an order over the phone at 888.567.8472, by faxing to 360.225.5666 or online at www.tirc.net.

TIRC New Product

Lift Director Field Reference Card

Item # 3075 - \$9.95

11" x 8.5" (6 panels)



This outstanding laminated field reference card is a must-have for those in charge of mobile crane lift activities. The six panel card identifies the responsibilities of the Lift Director, Site Supervisor, Crane Owner, Crane User and Crane Operator as described in ASME B30.5 Mobile Cranes.

TIRC Featured Product

Crane Operator Log Book

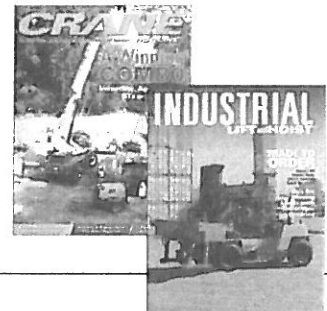
Item # 9012 - \$9.95

48 pages, 4.6" x 7", softbound



Crane operators can keep detailed records of their hours of operation with this book. The book has a unique all-weather writing paper created to shed water. On each entry the operator is able to record details such as date, operator name, supervisor name, crane make/model, capacity of the crane and the time of operation. The pages are not pre-dated so the operator is able to start using the book at any time during the year.

Look for TIRC's full-page ad in the August issue of Crane Hot Line Magazine and our Field Product Guide inside the July/August issue of Industrial Lift and Hoist.

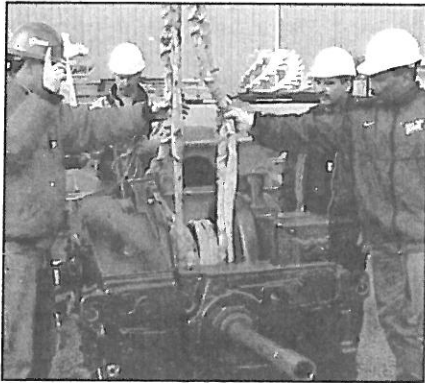


Answers to Page 1 Technical Workshop:

1. B 2. B 3. A 4. A 5. B 6. A

CLIENT SITE TRAINING PROGRAMS

Course length varies based on the number of participants and course subjects selected.



Journeyman Rigger

- Terms & Definitions
- Load Weight Estimation
- Center of Gravity
- Rigging Removal Criteria
- Load Control
- Rigging Capacities
- Sling Angles & Tensions
- Horizontal Rigging
- Sling & Rigging Selection
- Rigging Procedures
- Accident Case Studies
- OSHA/ASME Standards
- Hands-On Activities

Course Length: 2-3 Days

Master Rigger

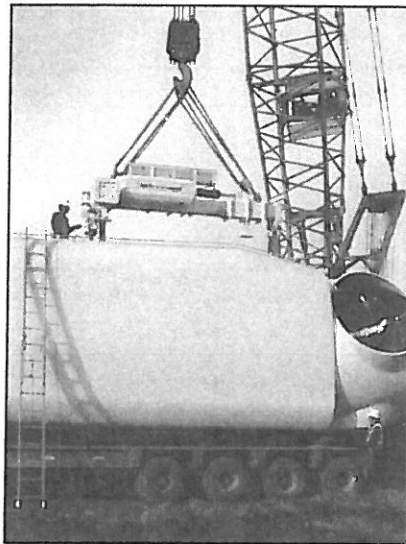
- Journeyman Rigging Review
- Load Weight Estimation
- Discover the CG
- Off-Level Pick Points
- Jacking & Rolling
- Incline Plane
- Chain Fall Load Drifting
- Spreader Bar Lifts
- Rigging Blocks & Winching
- Communications
- Hands-On Activities

Course Length: 3-5 Days

Lift Director & Site Supervisor

- ASME B30.5 Responsibilities
- Lift Site Preparation
- Traffic Control
- Load Chart Confirmation
- Responsibilities of Operator, Rigger, Signaler
- Hazard Recognition
- Multiple Crane Lifts
- Lifting Personnel
- Pick & Carry Operations

Course Length: 1-2 Days



Critical Lift Planning

- Load Affirmation
- Crane Verification
- Rigging Confirmation
- Work Site Approval
- Pre-lift Checklist
- Load Schematic / Rigging Method
- Load Travel Path / Personnel Placement
- Load Handling Sequence and Procedures

Course Length: 1-2 Days



Aerial Work Platform Operator

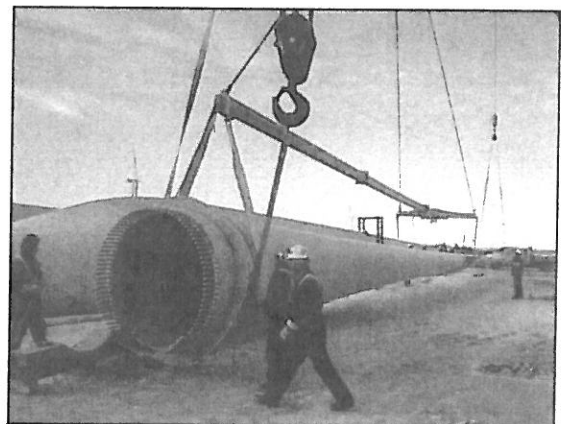
- Introduction to Work Platforms
- Pre-Operational Inspection
- Control Functions
- Operating Practices
- ASME Standards
- Hands-On Operating

Course Length: 1 Day

Forklift/Telehandler Operator

- Introduction to Forklifts
- Operator Qualifications
- Components
- Daily Inspections
- Operating Practices
- Stability
- Safety
- Maintenance
- OSHA/ASME Standards
- Hands-On Operating

Course Length: 1-2 Days



CLIENT SITE TRAINING PROGRAMS

Course length varies based on the number of participants and course subjects selected.

Rigging Gear Inspector Basics

- Wire Rope Slings
- Synthetic Web Slings & Roundslings
- Alloy Chain Slings
- Rigging Hardware
- Below-the-Hook Lifting Devices
- OSHA/ASME Standards
- Hands-on Inspections

Course Length: 1 Day

Rigging Gear Inspector Level I & II

- Wire Rope
- Wire Rope Slings
- Synthetic Web Slings & Roundslings
- Alloy Chain Slings
- Rigging Hardware
- Below-the-Hook Lifting Devices
- OSHA/ASME Standards
- Written Exams
- Students' Hands-On Inspection Evaluations

Course Length: 3-4 Days

Overhead Crane Operator

- Introduction to Overhead Cranes
- Daily Inspections
- Control Functions
- Crane Operating Practices
- Hand Signals
- Rigging
- OSHA/ASME Standards
- Hands-On Operating

Course Length: 1-2 Days

Boom Truck Operator

- Daily Inspections
- Boom Truck Set-up
- Load Chart Interpretation
- Operator Responsibilities
- Rigging Practices
- Operating Practices
- Communications
- Operating Near Power Lines
- OSHA/ASME Standards
- Hands-On Operating

Course Length: 3-4 Days

Mobile Crane Operator

- Introduction to Mobile Cranes
- Technical Information
- Operating Practices
- Leverage
- Lift Considerations
- Communications
- Daily Inspection
- Rigging Practices
- Load Charts
- OSHA/ASME Standards
- Hands-On Operating

Course Length: 4-5 Days

Overhead Crane Inspector

- Hoist Chain Inspection
- Wire Rope Inspection
- Daily, Monthly & Annual Checklists
- Limit Switches
- Brakes
- Structural
- Drive Trains
- OSHA/ASME Standards
- Hands-On Inspections

Course Length: 2-4 Days

Mobile Crane Inspector

- Inspection Requirements
- Safety Procedures
- Inspection Components
- Mechanical Systems
- Structural Components
- Electrical, Hydraulic & Air Systems
- Hoist Systems
- Safety Items
- OSHA/ASME Standards
- Hands-On Inspections

Course Length: 2-4 Days

UPCOMING EVENTS

May 2009

- 12-15 Master Rigger Training
Woodland, WA
- 18-21 Rigging Gear Inspector Level I & II Training
Woodland, WA
- 19-21 American Society of Mechanical Engineers
Main Committee Meeting, St. Pete Beach, FL

June 2009

- 1-5 Web Sling & Tie Down Association
General Meeting, Asheville, NC
- 8-12 Mobile Crane Operator Training
Woodland, WA
- 23-26 Rigging Gear Inspector Level I & II Training
Woodland, WA

July 2009

- 7-10 Master Rigger Training
Woodland, WA
- 13-17 NCCCO Mobile Crane Operator Certification
Woodland, WA
- 13-15 Rigging Gear Inspector Level III Training
Birmingham, AL
- 21-22 Journeyman Rigger Training
Woodland, WA
- 21-24 Master Rigger Training
Birmingham, AL
- 23 Forklift and Rough Terrain Forklift Operator Training
Woodland, WA
- 23-24 Journeyman Rigger Training
Woodland, WA

August 2009

- 11-14 Rigging Gear Inspector Level I & II Training
Woodland, WA
- 18-21 Master Rigger Training
Woodland, WA
- 19-20 SCRA Financial & Risk Management Forum
Pittsburgh, PA
- 25 Lift Director & Site Supervisor Training
Woodland, WA
- 26-27 Critical Lift Planning Training
Woodland, WA

ITI Testimonials

"Having many years of experience in the crane training industry, I have dealt with many of the major training companies. I can honestly say that Industrial Training International, Inc. in Woodland, WA is without a doubt one of the most impressive facilities that I have ever seen. I attended a Journeyman Rigger Program that offered not only classroom time but also a hands-on approach providing us with the knowledge and skill necessary to properly move loads using slings and other rigging hardware. The program was presented by an instructor who was very knowledgeable and has years of experience in the industry. The information and experience that I received was invaluable."

Chris Smith
Technical Trainer
Morrow Equipment Company

"All of us at Casey Industrial would like to take this opportunity to thank the employees at Industrial Training International for all of the help they have given to the folks at Casey Industrial. The Casey employees who attended the March 2009 NCCCO Mobile Crane Operator Program had nothing but positive comments about the program they attended. We are a better company for using Industrial Training for our training needs."

Glenn D. Davis
Director of Environmental, Health & Safety
Casey Industrial, Inc.



The Professional Rigger is a publication of Industrial Training International, Inc. It is distributed to those whose occupations require the safe and proper use of lifting and rigging equipment.

For more information contact
The Professional Rigger
PO Box 1660, Woodland WA 98674
360.225.1100
or visit our website: www.wrrc.com